

Notice of Allowability

Application No.

10/784,877

Examiner

Melanie Tyson

Applicant(s)

FUKUDA ET AL.

Art Unit

3731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment received on 17 October 2007.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

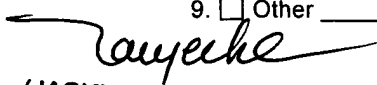
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.


THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


(JACKIE) TAN-UYEN HO
SUPERVISORY PATENT EXAMINER

Melanie Tyson 
December 11, 2007

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Previously Presented) A medical lancet, comprising:

a first ascending region having a sharp point, a descending region, and a second ascending region subsequently and integrally formed of biodegradable material, extending from the point in a predetermined direction, each of said regions having triangular cross sections taken along any planes perpendicular to the predetermined direction;

said first and second ascending regions having the triangular cross sections of which area monotonically increases as being away from the point; and

said descending region having the triangular cross sections of which area monotonically decreases as being away from the point;

wherein said first and second ascending regions have the largest cross section having substantially the same size and shape to each other.

2. (Previously Presented) The medical lancet according to Claim 1, further comprising:

at least one additional descending and ascending regions subsequently and integrally formed of biodegradable material and connected to said second ascending region, extending in the predetermined direction;

wherein each of said additional descending and ascending regions has the triangular cross sections taken along any planes perpendicular to the predetermined direction, of which area monotonically decreases and increases as being away from the point, respectively; and

wherein said first and second ascending regions have the largest cross section having substantially the same size and shape to each other.

3. (Currently Amended) The medical lancet according to Claim 1, wherein the smallest cross section in the descending region is similar to the largest cross section in the ascending regions, and

wherein the smallest cross section in the descending region has ~~[[the]]~~ an area greater than one-fourth of the area of the largest cross section in the ascending regions.

4. (Currently Amended) The medical lancet according to Claim 3, wherein the smallest cross section in the descending region has ~~[[the]]~~ an area greater than four-ninths of the area of the largest cross section in the ascending regions.

5. (Original) The medical lancet according to Claim 1,
wherein the largest cross sections in said first and second ascending
regions are spaced away from each other by a gap greater than one micron.
6. (Original) The medical lancet according to Claim 1,
wherein a continuous curved portion is provided between said
descending region and said second ascending region for smoothly connecting
thereof.
7. (Original) The medical lancet according to Claim 1, further comprising:
a constant region integrally formed of biodegradable material between
said descending region and said second ascending region, having triangular
cross sections taken along any planes perpendicular to the predetermined
direction, of which area is constant.
8. (Original) The medical lancet according to Claim 1,
wherein the area of the triangular cross sections in the first and second
ascending regions are linearly increased at first and second increasing rates,
respectively, and the first increasing rate falling within a range between one-
sixteenth and one of the second increasing rate.
9. (Original) The medical lancet according to Claim 8,

wherein the first increasing rate is one-ninth of the second increasing rate.

10. (Original) The medical lancet according to Claim 1, further comprising:

a holding region of biodegradable material connected to said second ascending region.

11. (Original) The medical lancet according to Claim 1, further comprising:

at least one channel extending in the predetermined direction through at least one of said first and second ascending regions and descending region.

12. (Original) The medical lancet according to Claim 11, wherein said holding region has at least one chamber in communication with said channel.

13. (Original) The medical lancet according to Claim 12, wherein said channel has at least one opening.

14. (Original) The medical lancet according to Claim 11,

wherein said channel has at least two openings spaced away from each other by a predetermined gap.

15. (Currently Amended) The medical lancet according to Claim 11,
wherein said at least one channel includes a plurality of channels ~~said channels are provided~~, and

wherein said holding region has a plurality of ~~[[said]]~~ chambers, each of the chambers being in communication with corresponding one of said plurality of channels.

16. (Original) The medical lancet according to Claim 1, further comprising:

at least one groove extending in the predetermined direction through at least one of said first and second ascending regions and descending region.

17. (Currently Amended) The medical lancet according to Claim 1, further comprising:

a plurality of vertical cavities extending in a vertical direction perpendicular to the predetermined direction; and

a seal membrane of biodegradable material for sealing said vertical cavities;

wherein the seal membrane has the thickness in the vertical direction that varies ~~varying~~ based upon the position of each of the vertical cavities.

18. (Previously Presented) A medical lancet, comprising:

a first ascending region having a sharp point, a descending region, and a second ascending region subsequently and integrally formed of biodegradable material, extending from the point in a predetermined direction, each of said regions having trapezoidal cross sections taken along any planes perpendicular to the predetermined direction;

said first and second ascending regions having the trapezoidal cross sections of which base monotonically increases as being away from the point; and

said descending region having the trapezoidal cross sections of which base monotonically decreases as being away from the point;

wherein said first and second ascending regions have the largest cross section having substantially the same size and shape to each other.

19. (Previously Presented) The medical lancet according to Claim 18, further comprising:

at least one additional descending and ascending regions subsequently and integrally formed of biodegradable material and connected to said second ascending region, extending in the predetermined direction;

wherein each of said additional descending and ascending regions has the trapezoidal cross sections taken along any planes perpendicular to the predetermined direction, of which base monotonically decreases and increases as being away from the point, respectively; and

wherein said first and second ascending regions have the largest cross section having substantially the same size and shape to each other.

20. (Currently Amended) The medical lancet according to Claim 18, wherein the smallest cross section in the descending region has [[the]] a base greater than a half of the base of the largest cross section in the ascending regions.

21. (Currently Amended) The medical lancet according to Claim 20, wherein the smallest cross section in the descending region has [[the]] a base greater than two-thirds of the base of the largest cross section in the ascending regions.

22. (Original) The medical lancet according to Claim 18, wherein the largest cross sections in said first and second ascending regions are spaced away from each other by a gap greater than one micron.

23. (Original) The medical lancet according to Claim 18, further comprising:

a constant region integrally formed of biodegradable material between said descending region and said second ascending region, having trapezoidal cross sections taken along any planes perpendicular to the predetermined direction, of which base is constant.

24. (Original) The medical lancet according to Claim 18,

wherein the base of the trapezoidal cross sections in the first and second ascending regions are linearly increased at first and second increasing rates, respectively, and the first increasing rate falling within a range between one-fourth and one of the second increasing rate.

25. (Original) The medical lancet according to Claim 24,

wherein the first increasing rate is one-third of the second increasing rate.

26. (Original) The medical lancet according to Claim 18, further comprising:

a holding region of biodegradable material connected to said second ascending region.

Fig.1

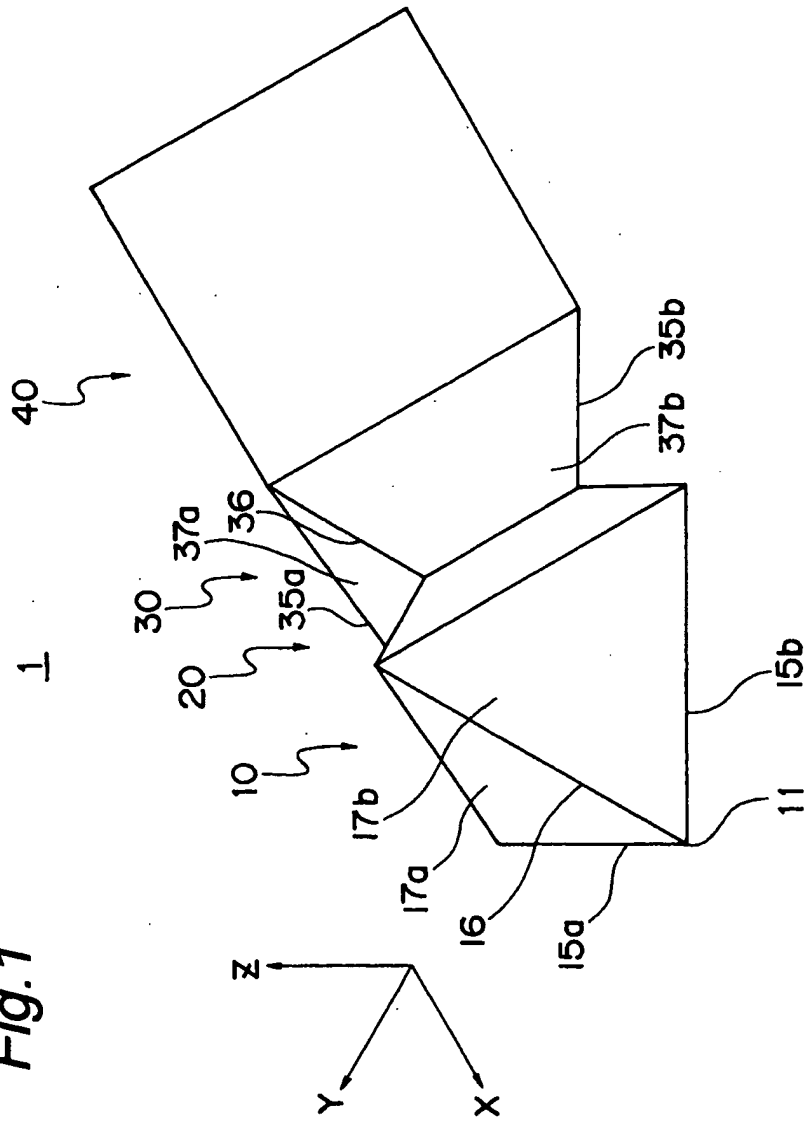


Fig. 2A

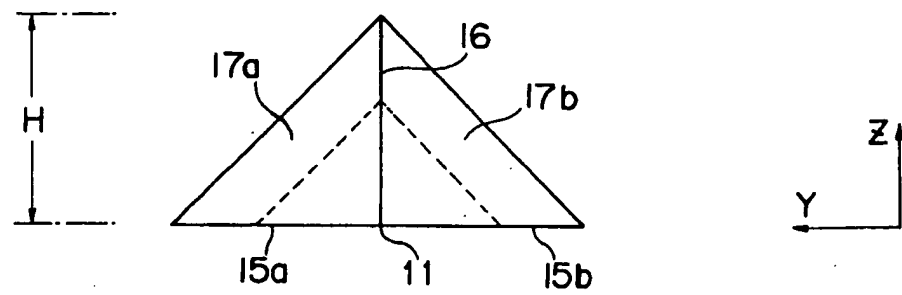


Fig. 2B

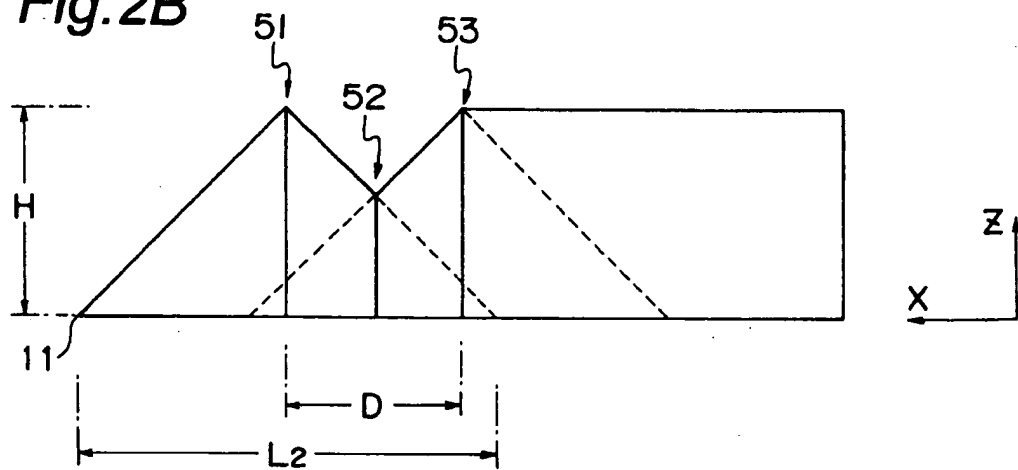


Fig. 2C

